

スポーツに起因する下顎骨骨折様式に 及ぼす親知らずの影響

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The Influence of the Presence of Impacted Mandibular Third Molar on Mandibular Fractures

by

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ABSTRACT

Back Ground: Several studies have shown the increase of the risk of mandibular angle fractures by the presence of the impacted lower third molar (IM3). Sport-related mandibular fracture is commonly observed in the younger patients, whose M3 are generally impacted and it easy to consider that the early information of the presence of this tooth is beneficial for preventing these traumatic lesion. **Objectives:** The purpose of this study was to clarify the influence of the eruption status of IM3 and decreased bony angle space on the incidence of mandibular angle fractures. **Methods:** 72 mandibular sides in 36 patients with mandibular fractures treated between April 1998 and March 2003 were analyzed. The eruption status of IM3 and the bony space of mandibular angle in the patients with IEM3 were analyzed by the panoramic radiographs. **Results:** Of 72 mandibular sides in 36 patients, 22 mandibular angle fractures were observed. The incidence of the angle fracture in the side with IM3 was 34.5% and that in the group without IM3 was 17.6%. The higher incidence of the angle fractures was observed in the groups with the mesioangular IM3 ranged 20 to 40 degrees. The group, in which the bony angle space was decreased more than 15 % by IM3, showed higher incidence of the angle fractures. **Conclusion:** The results of this investigation showed that IM3, in which the dental root directed toward the edge of the angle have a higher risk of the angle fracture in the sports-related mandibular fractures and the decreased bony space of the mandibular angle due to the presence of IM3 is considered to be a causative factor. To prevent the mandibular angle fractures during sports, the players and the coach should be aware of the presence of this tooth.

要 旨

本研究では過去において治療を行ったスポーツによって受傷した下顎骨骨折症例について臨床的に検討を行い、下顎埋伏智歯（親知らず）の存在が下顎角部骨折に対していかなる影響を及ぼしているのかを検討した。その結果、スポーツ外傷症例は他の受傷症例と同様に、埋伏智歯を保有する下顎角部での骨折頻度は有意に高く、とくに近心に傾斜し根尖が下顎角部方向に向けて萌出する傾向を示す智歯を保有している症例、さらに下顎角部が智歯によって広く占拠されその骨面積が減少している症例において骨折が高い頻度で見られる

傾向が観察された。思春期以降の世代での埋伏智歯の保有率は高いため、スポーツに参加しているこれら世代の競技者あるいはその指導者に対してこの歯牙の持つ危険性を周知させることは、スポーツ顔面外傷における下顎骨骨折の発生を抑制する上で有効と判断される。